-250B

SERVICE MANUAL

UK Model

SPECIFICATIONS

TV standard Channel Coverage

Aerial

Picture tube Input

British TV standard UHF channels 21-68 UHF telescopic aerial

2.7-inch picture measured diagonally

A/V IN: stereo minijack

Impedance

Audio approx. 47 kilohms

Video 75 ohms EAR: minijack

Impedance 8-300 ohms Power requirements

6V DC See "Power Sources".

Battery life

Weight

Output

See "Power Sources".

Approx. 106×185.5×51.8 mm Dimensions

 $(4\frac{1}{4} \times 7\frac{3}{8} \times 2\frac{1}{8} \text{ inches})$

excl. projecting parts and controls Approx. 540g (19 oz) incl. batteries

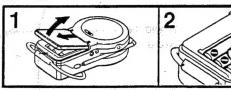
Note: Use only the recommended AC power adaptor or car battery cord manufactured by Sony.

Polarity of the plugs of other manufacturers may be different.

Polarity of the Sony plug

Power Sources

Batteries



Note: The use of alkaline batteries are recommended.

House Current (240V AC)

Connect the AC-D4M AC power adaptor (not supplied) to the DC IN 6V jack.

Car Battery (12V DC)

Connect the DCC-127A car battery cord (not supplied) to the DC IN 6V jack.

External Battery Case

Insert four R14 or LR14 (SIZE C) batteries into EBP-6 external battery case (not supplied) and connect it to the DC IN 6V iack.

Battery life

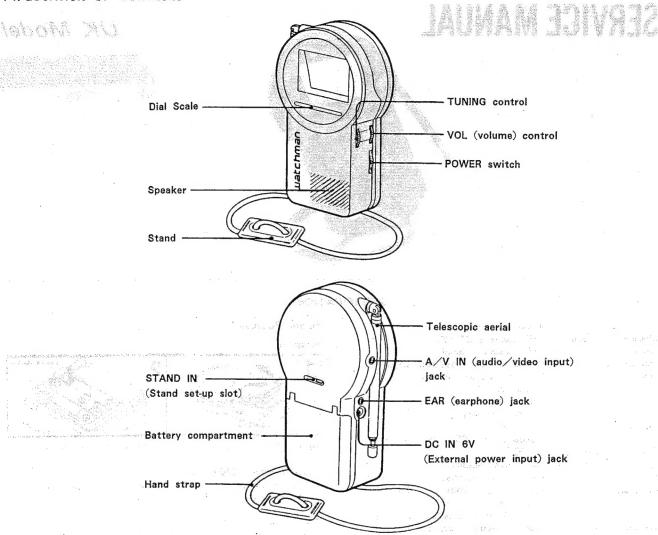
Batteries	TV mode (Full volume)
Sony alkaline AM3 (N)	4 hours
EBP-6 external case (not supplied) with Sony alkaline AM2 (N)	7 hours



FLAT BLACK AND WHITE TV SONY

SECTION 1 GENERAL

1-1. LOCATION OF CONTROLS



Note: When excharging tuner unit, cut as shown below and install it.

tuner unit

cut here

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit boad(within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

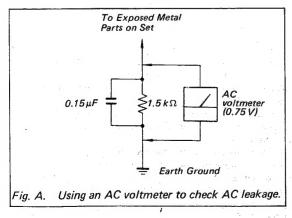
SECTION 2 SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the line cord for cracks and abrasion.
 Recommend the replacement of any such line cord to the customer.
- Check the condition of the monopole antenna (if any).
 Make sure the end is not broken off, and has

the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.

- 8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



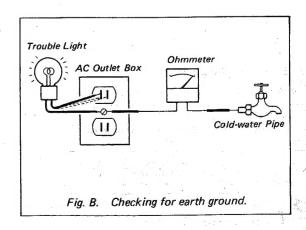
LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



SECTION 3 ADJUSTMENTS

NOTE

- 1. Test Equipment Required
 - regulated dc power supply
 - color-bar/pattern generator
 - digital voltmeter
- 2. Input Signal
 - Cross hatch color-bar off-the-air signal.
- The adjustment should be performed with 6V dc and about 5 minutes warmup unless otherwise noted
- Position the set vertically with the front side faced to the north for TV-section adjustments.

4V Adjustment

- 1. Connect digital voltmeter to TP 4V.
- 2. Adjust pattern connection C and D for $4.0 \pm 0.12 V$ reading on digital voltmeter.

pattern co	onnection	digital voltmeter
. C	D	reading
open	short	up
open	open	
short	open	down

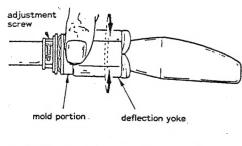
32V Adjustment

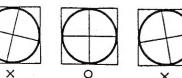
- 1. Connect digital voltmeter to TP(32V)
- 2. Adjust RV601 for 32.2 ± 0.1 V reading on digital voltmeter.

Horizontal Alignment Adjustment

- 1. Loosen the adjustment screw.
- 2. Tune in an off-the-air signal and adjust deflection yoke for optimum picture.
- 3. Tighten the screw after the adjustment.

Note: When making the adjustment, turn the deflection yoke while holding the mold portion together with





Centering Adjustment

Adjustment Location

TP(32V)

RV201 (AGC)

0

RV601 (32V)

-A board- (Conductor Side)

RV503 (KEYSTONE)

RV401

VOL

RV504 (H.SIZE)

шишши

IC501

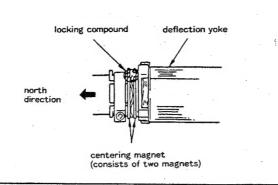
IC501 (13)

0

⊗ RV502

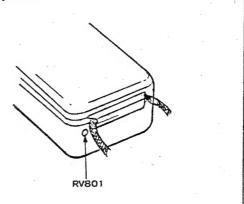
RV501 (V.SIZE)

- 1. Turn the socket of CRT toward the north.
- 2. Tune in an off-the-air signal.
- Adjust the centering magnet so that the picture is in the center.



Focus Adjustment

- 1. Tune in an off-the-air signal.
- Adjust RV801 for the best focus at the center of the picture.



RF AGC Adjustment

(CRT RANK)

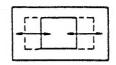
- 1. Tune in an off-the-air signal.
- Adjust RV201 so that snow noise disappears from the picture.

Horizontal Frequency Adjustment

- 1. Connect terminal (3) of IC501 to ground.
- 2. Tune in an off the air signal and adjust RV502 for stable picture.

Horizontal Amplitude (H-SIZE) Adjustment

- 1. Tune in an off-the-air signal.
- 2. Adjust RV504 for the best horizontal amplitude.



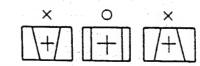
Vertical Amplitude (V-SIZE) Adjustment

- 1. Tune in an off-the-air signal.
- 2. Adjust RV501 for the best vertical amplitude.



Keystone Correction (KEYST) Adjustment

- 1. Tune in an off-the-air signal.
- 2. Adjust RV503 for the optimum picture.



CRT Rank Adjustment

When replacing the CRT, make sure of marking color on neck of CRT and perform this adjustment,

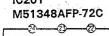


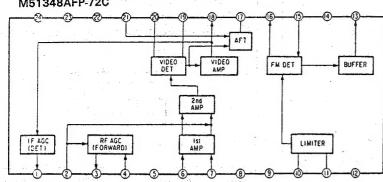
marking color	pattern connection					
	Α	В				
red no mark	short	open				
blue	open	short				

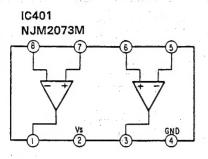
- 4 -

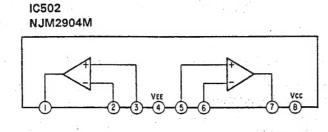
SECTION 4 DIAGRAMS

4-1. IC BLOCK DIAGRAM

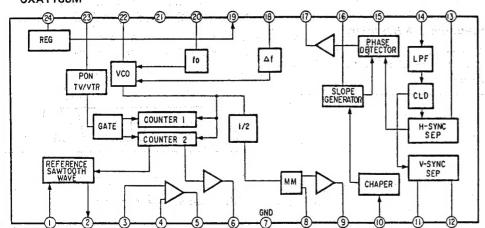




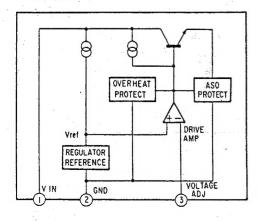




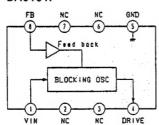
-IC501 **CXA1188M**



IC601 M5236ML



IC602 BA6161F



• Semiconductor Location

Semiconductor Location								
Location	ŀ							
E-3 F-6 F-4 D-5 C-6								
G-3								
D-4 C-3 C-3 E-6 E-5								
D-5 E-7 D-7 D-7 E-5	-							
C-6 F-8 F-6 F-9 F-7								
D-2 F-6 D-6 F-3 C-2								
G-4 F-7 F-9	1.							
	E-3 F-6 F-4 D-5 C-6 G-3 D-4 C-3 E-5 D-7 D-7 E-5 E-7 D-7 E-6 F-9 F-7 D-6 F-3 C-6 F-3 C-6 F-7 D-7 E-6 F-7 D-7 E-6 F-7 D-7 E-6 F-7 D-7 E-6 E-6 E-6 E-6 E-6 E-6 E-6 E-6 E-6 E-6							

• Note on Printed Wiring Boards

- -: parts extracted from the component side.
- parts extracted from the conductor side,

2SA1162 2SC1623-L7 2SC2714-Y 2SC3360 DTC114EK DTC114YK





1SS146 1S1585



188226



MA152WK

 All capacitors ar RD5.1M-B2

5

J402 A/V IN

6

EAR

- 50WV or less a and tantalums. All resistors are
 - specified. Note: The comp

Note on Schem

B+ : B+ Lin

line with n Replace or

- : adjustn

Ref. No.	Location	
IC201 IC401 IC501 IC502 IC601 IC602	E-3 F-6 F-4 D-5 C-6 G-3	
Q201 Q202 Q301 Q302 Q501	D-4 C-3 C-3 E-6 E-5	51
Q503 Q504 Q506 Q507 Q508	D-5 E-7 D-7 D-7 E-5	-
Q601 Q801 Q802 Q803 Q805	C-6 F-8 F-6 F-9 F-7	
D201 D401 D502 D601 D602	D-2 F-6 D-6 F-3 C-2	-
D603 D801 D802	G-4 F-7 F-9	# f

D

• Semiconductor Lead Layouts









4-2. PRINTED WIRING BOARDS

[A BOARD]

ANT I TELESCOPIC AERIAL

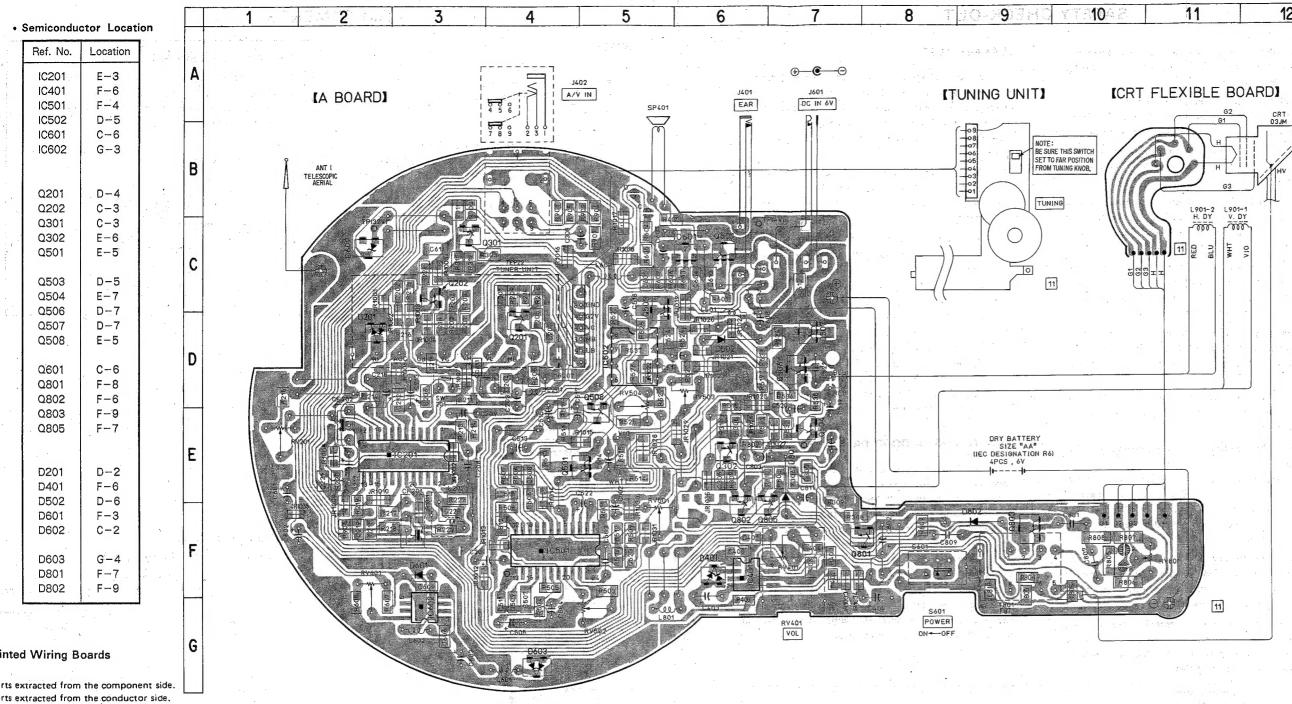
3











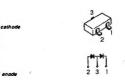
Semiconductor Lead Layouts

2SA1162 2SC1623-L7 2SC2714-Y 2SC3360 DTC114EK DTC114YK



2SB798-DL 2SC3649-S 2SD999-CLCK 2SD1624-T





188226



MA152WK





RD5.1M-B2

- Note on Schematic Diagram:
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/8W or less unless otherwise specified.

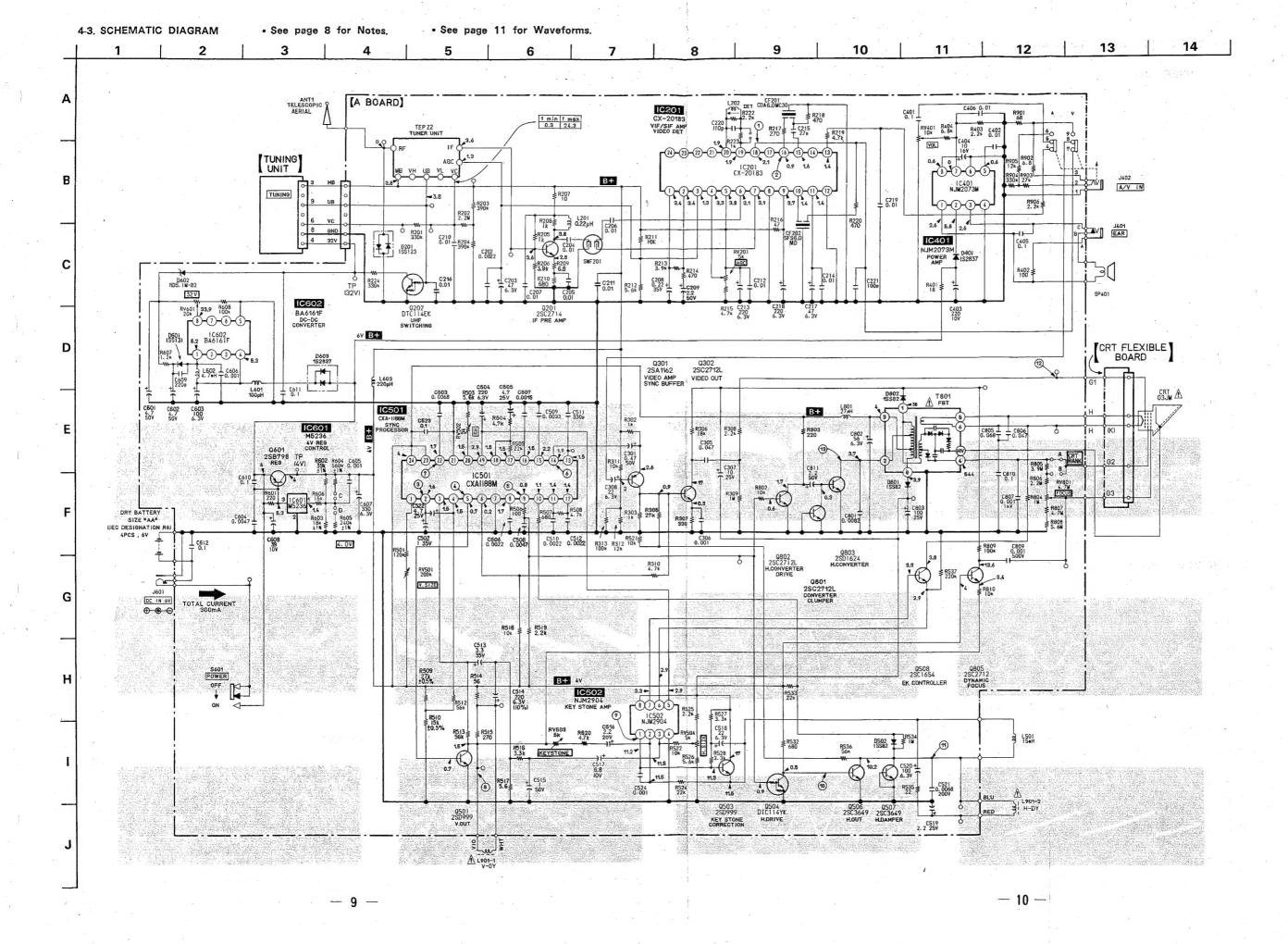
Note: The components identified by mark A or dotted line with mark A are critical for safety.

Replace only with part number specified.

- B+ : B+ Line
- : adjustment for repair.

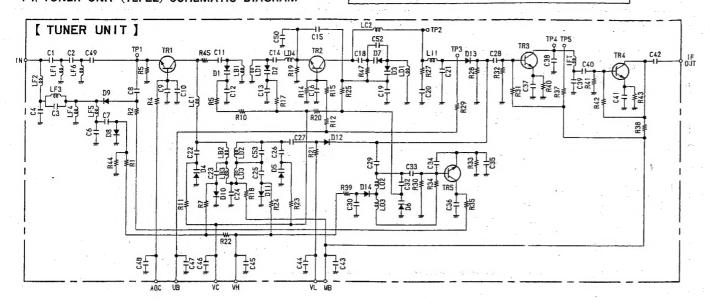
- Power voltage is dc 6V and fed with regulated dc power supply from external power voltage jack.
- Voltage and waveforms are dc with respect to ground in VHF chnnel received conditions.
- Voltages are taken with a VOM (Input impeadance 10MΩ) Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - ⇒ : TV (PICTURE)
 - ⇒ : TV (SOUND)

1SS146 1S1585

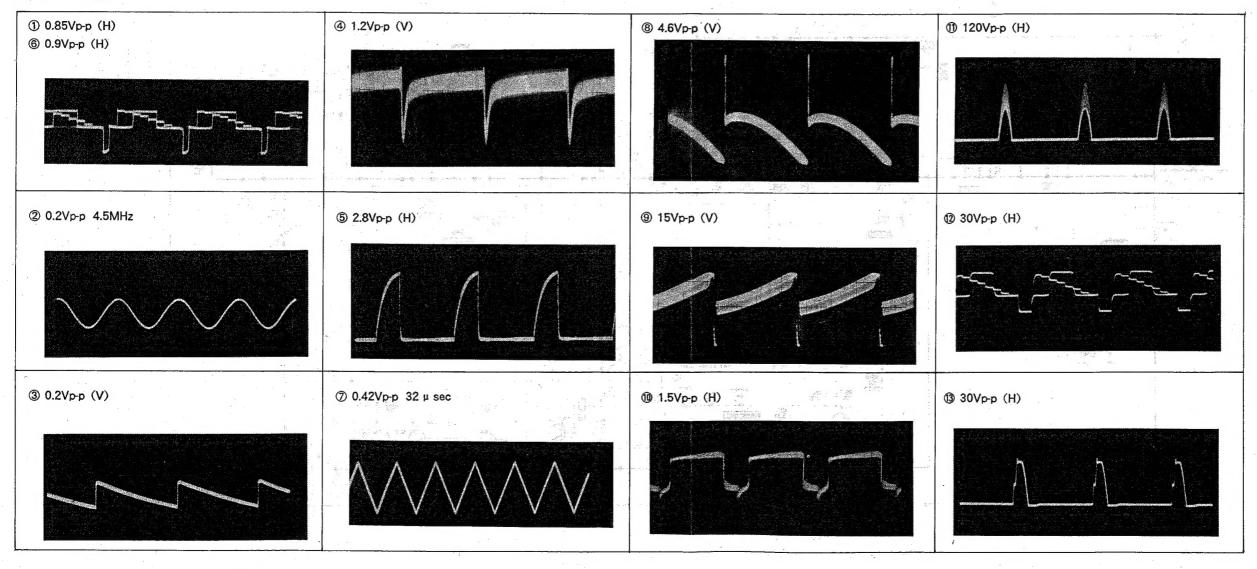


44. TUNER UNIT (TEPZ2) SCHEMATIC DIAGRAM

The tuner unit is carefully adjusted at the factory and is supplied as one whole block for replacement.



4-5. WAVEFORMS



SECTION 5 EXPLODED VIEW

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example:
 (RED) ... KNOB, BALANCE (WHITE)

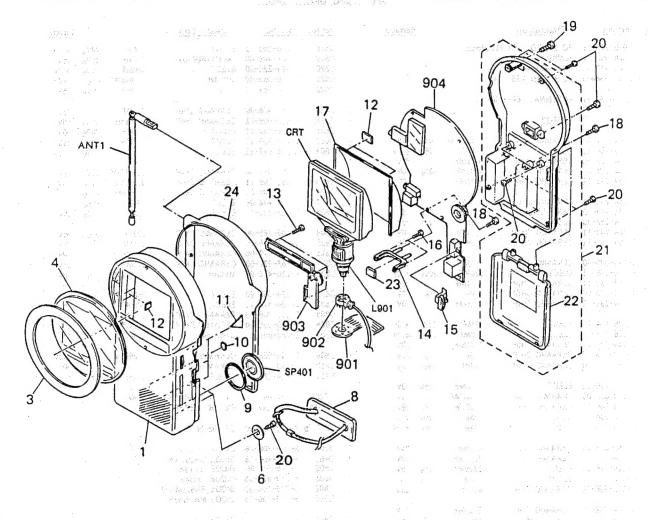
Cabinet's Color

Parts Color

The components identified by mark A or dotted line with mark A are critical for safety.

Replace only with part number specified.

TO THE WALL COST OF SECURIOR AND A SECURIOR AND A SECURIOR ASSESSMENT OF THE SECURIOR ASSESSMENT OF TH



Ref.No	Part No.	<u>Description</u>	Remark	Ref.No	Part No.	Description		-1 -12 -3	Remark
1	3-349-342-21	CADINET (FRONT)		17		COVER, CRT			
3	3-349-345-11	ORNAMENT, FILTER		18	3-342-759-21	SCREW (B1.7X8)	TAPPING	196	
4	3-349-359-01	FILTER		19	7-682-148-15	SCREW +P 3X8	Jacob C.J	a ta sa	
6	4-303-605-00	NUT	Table 1 Sale			SCREW (2X8), +			
8	X-3342-/1/-1	STAND ASSY	. 1			CABINET (REAR)			
9	3-342-777-01	SHEET, ADHESIVE, SPEAK	(ER appearance (Start 1)			LID ASSY, BATTI			
10	9-911-838-XX	CUSHION		23		CUSHION, LID			
11	*3-338-931-01	PLATE to the second sec		24		STRIP, ORNAME	NTAL	1 - 1 - 1, 4, 4, 5	
12	9-911-839-XX	RUBER, (B)	11.5 (1)			PC BOARD, CRT			137
13	3-318-201-51	SCREW (B) (1.4X4), TAPE	ING			SOCKET, CRT		anniar nous	
14	3-342-781-01	BRACKET, CRT		903	1-465-015-11	TUNING UNIT		527.6	- 11th
15	3-342-783-01	KNOB (POWER SW)	Washington and the	904	* A-3015-888-A	PC BOARD ASSY	Α	, incatal	100
16	3-318-201-61	SCREW (B) (1.4X6), TAPP	ING	ANT1	1-501-450-21	ANTENNA, TELES	SCOPIC		
	4.0		at Wilself Links &		8-733-321-00	CRT-03JM	ATACT 1		7
						DEFLECTION YOK			
			1	SP401	1-503-540-11	SPEAKER		•	

SECTION 6 ELECTRICAL PARTS LIST

SECTION 5

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS: MF: μF, PF: μμF.

RESISTORS

All resistors are in ohms.
F: nonflammable

COILS ■ MMH: mH, UH: μH

SEMICONDUCTORS

In each case, U: μ, for example: UA...: μA..., UPA...: μPA..., UPC...: μPD...

The components identified by mark \(\bar{\Lambda} \) or dotted line with mark \(\bar{\Lambda} \) are critical for safety. Replace only with part number repolition.

CAY 300 SECURE SQUESCE LLE SCREEN SCHOOL SCHOOL CORES SHEET DE SPECI-LEURE SKOVE CHARLES CHARLES LES

Ref.No	Part No.	Description		Remark	Ref.No	Part No.	Description	•		Remark
901	1-626-675-11	PC BOARD, CRT FLEXIBLE		1	C518	1-126-153-11	ELECT	22MF	20%	6.3V
902	1-526-992-11	SOCKET, CRT		1	C519		ELECT (SOLID)	2.2MF	20%	25V
903	1-465-015-11	TUNING UNIT		j	C520	1-124-225-00	ELECT	100MF	20%	6.3V
904	* A-3015-888-A	PC BOARD ASSY, A	right.		C521	1-106-363-00	MYLAR	0.0068MF	5%	200V
		1.4.4	27,70		C522	1-126-094-11	ELECT	4.7MF	20%	25V
ANT1	1-501-450-21	ANTENNA, TELESCOPIC		25.5					,	
		10,000	Sept.	SQL.	C523	1-163-038-00	CERAMIC CHIP	0.1MF		25V
	<u>CA</u>	<u> </u>			C524		CERAMIC CHIP	0.001MF	10%	50V
C202	1-164-161-11	CERAMIC CHIP 0,0022MF	100/	50V	C601	1-126-163-11		4.7MF	20%	50V
C202	1-126-154-11		10% 20%	50V 6.3V	C602 C603	1-126-163-11		4.7MF	20%	50V
C204		CERAMIC CHIP 0.01MF	20/0	50V	C003	1-126-177-11	ELECT	100MF	20%	6.3V
C205			10%	50V	C604	1~163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C206		CERAMIC CHIP 0.01MF	/0	50V	C605		CERAMIC CHIP	0.001MF	10%	50V 50V
	100				C606		CERAMIC CHIP	0.001MF	10%	50V
C207	1-164-232-11	CERAMIC CHIP 0.01MF	3	50V	C607	1-124-442-00		330MF	20%	6.3V
C208	1-131-343-00		10%	35V	C608	1-126-121-11	ELECT	39MF	20%	.10V
C209	1-124-257-00		20%	50V			of the state of the		-, •	
C210		CERAMIC CHIP 0.01MF	Sec.	50V	C609		CERAMIC CHIP	220PF	5%	50V
C211	1-164-232-11	CERAMIC CHIP 0.01MF		50V	C610		CERAMIC CHIP	0.1MF		25V
C212	1-163-050-00	CERAMIC CHIP 0.01MF	1,	CON	C611		CERAMIC CHIP	0.1MF		50V
C212	1-163-059-00 1-126-176-11		2007	50V 6.3V	C612		CERAMIC CHIP	0.1MF		25V
C214		CERAMIC CHIP 0.01MF	20%	50V	C801	1-130-482-00	MITLAN	0.0082MF	5%	50V
C215	1-163-103-00		5%	50V	C802	1-124-565-00	ELECT	56MF	2004	C 211
C216		CERAMIC CHIP 0.01MF	970	50V	C803	1-124-478-11		100MF	20%	6.3V 25V
				11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C805		CERAMIC CHIP	0.068MF	20%	50V
C217	1-126-154-11	ELECT 47MF	20%	6.3V	C806		CERAMIC CHIP	0.047MF	9 3	50V
C218	1-126-176-11		20%	6.3V	C807	1-162-697-11	CERAMIC	0.001MF		IKV
C219		CERAMIC CHIP 0.01MF		50V	3. 5	11 43		3		
C220			5%	50V	C809	1-102-038-00		0.001MF	Medi	500V
C221	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C810		CERAMIC CHIP	0.1MF	4	50V
C301	-1-124-4CE-00	ELECT 0 47ME	2007	row	C811	1-124-257-00	ELECT	2.2MF	20%	50V
C301	1-124-465-00 1-163-035-00	CERAMIC CHIP 0.47MF	20%	50V	05201	1 567 660 11	FILTED 0504440			a and the second
C306	1-163-009-11		10%	50V 50V			FILTER, CERAMIC	(6.UMHZ)		
C307	1-126-096-11	ELECT 10MF	20%	25V	GF 202	1-36/-661-11	FILTER, CERAMIC			
C308	1-126-153-11		20%	6.3V	CRT A	8-733-321-00	CRT DIM			
••••			20/0		OIL. W	37,33-321-00	CAT DOJIN			
C401	1-163-038-00	CERAMIC CHIP 0.1MF		25V	D201	8-719-800-76	DIODE 1SS226			
C402	1-164-232-11	CERAMIC CHIP 0.01MF		50V	D401		DIODE MA152WK			•
C403	1-126-176-11		20%	10V	D502	8-719-970-80	DIODE 1SS146			
C404	1-126-157-11		20%	16V	D601	8-719-815-85				
C405	1-163-038-00	CERAMIC CHIP 0.1MF		25V	D602	8-719-105-82	DIODE RD5.1M-B2			
CADE	1 164-000 11	OF DAMIO CHIP		501/	D603	8-719-400-18	DIODE MA152WK			
C406		CERAMIC CHIP 0.01MF	100/	50V	D001	0 710 070 00	DIODE 166116			
C502 C503	1-131-347-11		10% 5%	35V 50V	D801 D802	8-719-970-80 8-719-970-80	DIODE 155146			
C504	1-124-635-00		20%	6.3V	DOUL	0-/17-7/0-00				
C505	1-126-094-11		20%	25V	IC201	ं 1-808-518-11	10 VE12/01TD 700	šti.		
		1/4 1/2 1/2 1/2	20/0		IC401	-	IC M51348AFP-72C	4		
C506	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V			IC CXA1188M	er di li est	4 300	
C507	1-163-209-00		5%	50V		8-759-700-42		the same of the		
C508		CERAMIC CHIP 0.0047MF 1	10%	50V			IC M5236ML		6.18:1	
C509			10%	50V			1.30	Light Production	1. 7	
C510	1-164-161-11		10%	50V	IC602	8-759-945-44	IC BA6161F	BANK 1947	360	
0511	1 102 000 11	SERVICE OF THE SERVIC	8 1 E-	£			27.31	Mary Art of	6.1-	
C511		CERAMIC CHIP 330PF		50V		1-565-457-11	STOR (ETTIC)	STRUCT NO NE	4 187 1	
C512 C513	1-164-161-11	CERAMIC CHIP 0.0022MF 1		50V			JUCK (W) A 114)	950 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 1 h	
C513	1-126-355-11		20% 10%	35V 6.3V	J601	1-562-961-11	JACK (DC IN 6V)	graduati ili si tombo	V 10	
C514				6.3V 50V	ID 1001	1-215-205-00	METALEOLATES SA	andre en 1970 de 1970		
0010	100 11	Delica de la Compania del Compania del Compania de la Compania de		307 35"			METAL GLAZE 0 METAL GLAZE 0		1/10W	A
C516	1-131-361-00	TANTALUM 2.2MF 1		20V		1-216-295-00		-70	1/10W	
C517		ELECT sign sear a 6.8MF; a 45.2			3.,2000	- 220 233 00	METAL VEALE V	5%	1/10W	

D.(No	Doirt No	Description	tanan addi.	⊘ Remarke	Ref.No:	Part No.	Description	, Bonadoù	ozt :Remarks ss
	Part No.	METAL GLAZE		Acres (1) 20	R210			680 5%	2.14, 2012
JR1005	1-216-295-00	METAL GLAZE	0 5%	1/10W	R211	1-216-073-00	METAL GLAZE	10K 5%	1/10W
JR1006	1-216-295-00 1-216-296-00	METAL GLAZE	0 5% 0 5%	1/10W 1/8W	R212 R213			5.6K 5% 3.9K 5%	
JR1007 JR1008	1-216-295-00	METAL GLAZE	0 5%	1/10W	R214			470 5%	
JR1009	1-216-295-00	METAL GLAZE	. 0 5%	1/10W	R215	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W
JR1010	1-216-296-00	METAL GLAZE	14 0 ≥	1/8W 1/10W	R216 R217			47 5% 270 5%	
JR1011	1-216-295-00 1-216-295-00	METAL GLAZE	0 5% 0 5%	1/10W	R218			470 5%	
		METAL GLAZE	0 5%	1/10W	R219	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W 368
JR1014	1-216-295-00	METAL GLAZE	0 5%	1/10W	R220			470 5%	
JR1015	1-216-295-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 5% 0 5%	1/10W 1/8W	R222 R223			2,2K 5% 1K 5%	
JR1017	1-216-296-00	METAL GLAZE	0 5%	1/8W	R224	1-216-109-00	METAL GLAZE	330K 5%	1/10W
JR1018	1-216-296-00	METAL GLAZE	0 5%	1/8W	R302	1-216-049-00		aad 1K aa 1 ma 5% aaga 2535aa - 56-	
	1-216-296-00		0 5%	1/8W	R303		METAL GLAZE	1K 5%	1/10W
JR1020	1-216-295-00 1-216-295-00	METAL GLAZE	0 5% 0 5%	1/10W 1/10W	R305 R306		METAL GLAZE	27K 5% 18K 5%	
JR1022	1-216-295-00	METAL GLAZE	0 5%	1/10W	R307	1-216-037-00	METAL GLAZE	330 5%	1/10W
JR1023	1-216-296-00	METAL GLAZE	0 5%	1/8W	R308	1-216-206-00	METAL GLAZE	1 3444 146	1/8W
	1-216-295-00		0 5% 0 5%	1/10W 1/8W	R309 R310	1-216-121-00 1-216-065-00	METAL GLAZE	1M 5% 4.7K 5%	1/10W 1/10W
JR1025 JR1026	1-216-296-00 1-216-295-00	METAL GLAZE	0 5%	1/10W	R311	1-216-073-00	METAL GLAZE	10K 5%	1/10W
JR1027	1-216-295-00	METAL GLAZE	0 5% 0 5%	1/10W	R312 R313	1-216-075-00 1-216-097-00	METAL GLAZE METAL GLAZE	12K 5% 100K 5%	1/10W 1/10W
	1-216-296-00			1/8W			RELAMINATION	4,7 367 367	time Mills to the control
	1-216-296-00		0 5% 0 5%	1/8W 1/10W	R401 R402	1-216-007-00 1-216-025-00	METAL GLAZE	18 5% 100 5%	1/10W 1/10W
JR1031	1-216-295-00	METAL GLAZE	0 5%	1/10W	R403	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W
	1-216-295-00 1-216-295-00		0 5% 0 5%	1/10W 1/10W	R404 R501	1-216-069-00	METAL GLAZE METAL GLAZE	6.8K 5% 120K 5%	1/10W 1/10W
	1-216-295-00	METAL GLAZE METAL GLAZE	0 5% 0 5%	1/10W 1/10W	R503 R504	1-216-067-00 1-216-065-00	METAL GLAZE	5.6K 5% 4.7K 5%	1/10W 1/10W
	1-216-295-00		0 5%	1/10W	R505	1-216-081-00	METAL GLAZE	22K 5%	1/10W
	1-410-312-11	INDUCTOR	0.22UH		R506 R507	1-216-025-00	METAL GLAZE METAL GLAZE	100 5% 680 5%	1/10W 1/10W
£201 £202	1-404-808-11	TRANSFORMER,	IF (VIF DETEC	TOR)					
L501 L601	1-410-777-11 1-410-645-31		15MMH 100UH		R508 R509	1-216-065-00 1-216-685-11	METAL GLAZE METAL CHIP	4.7K 5% 27K 0.50%	1/10W 6 1/10W
L602	1-410-771-11		4,7MMH		R510	1-216-679-11	METAL CHIP	15K 0.509	6 1/10W
L603	1-410-525-11	INDUCTOR	220UH		R512 R513	1-216-091-00 1-216-091-00	METAL GLAZE METAL GLAZE	56K 5% 56K 5%	1/10W 1/10W
L801	1-410-668-11	INDUCTOR	27UH						
L901 /	1-451-328-11	DEFLECTION YO	IKE		R514 R515	1-216-019-00 1-216-035-00	METAL GLAZE	56 5% 270 5%	1/10W 1/10W
Q201		TRANSISTOR 2S			R516	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W
Q202 Q301		TRANSISTOR DI			R517 R518	1-216-309-00 1-216-073-00	METAL GLAZE METAL GLAZE	5.6 5% 10K 5%	1/10W 1/10W
Q302	8-729-100-67	TRANSISTOR 2S	C1623-L7						
Q501	8-729-140-75	TRANSISTOR 2S	D999-CLCK		R519 R520		METAL GLAZE METAL GLAZE	2.2K 5% 4.7K 5%	1/10W 1/10W
Q503		TRANSISTOR 2S			R521	1-216-073-00	METAL GLAZE	10K 5%	1/10W
Q504 Q506		TRANSISTOR D'			R522 R524	1-216-073-00 1-216-081-00	METAL GLAZE METAL GLAZE	10K 5% 22K 5%	1/10W 1/10W
Q507	8-729-808-56	TRANSISTOR 2S	C3649-S						
Q508	8-729-105-37	TRANSISTOR 2S	SC3360		R525 R526	1-216-057-00 1-216-067-00	METAL GLAZE METAL GLAZE	2.2K 5% 5.6K 5%	1/10W 1/10W
Q601		TRANSISTOR 25			R527	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W
Q801	8-729-100-67 8-729-100-67	TRANSISTOR 2S TRANSISTOR 2S			R528 R532	1-216-061-00	METAL GLAZE METAL GLAZE	3.3K 5% 680 5%	1/10W 1/10W
Q802 Q803		TRANSISTOR 25			•				
Q805	8-729-100-67	TRANSISTOR 25	C1623-L7		R533 R534	1-216-081-00 1-216-121-00	METAL GLAZE METAL GLAZE	22K 5% 1M 5%	1/10W 1/10W
	R	ESISTOR			R535	1-216-009-00	METAL GLAZE	22 5%	1/10W
R201	1-216-109-00	METAL GLAZE	330K 5%	1/10W	R536 R537	1-216-091-00	METAL GLAZE METAL GLAZE	56K 5% 220K 5%	1/10W 1/8W
R202	1-216-129-00	METAL GLAZE	2.2M 5%	1/10W					
R203	1-215-111-00 1-216-111-00	METAL GLAZE METAL GLAZE	390K 5% 390K 5%	1/10W 1/10W	R601 R602	1-216-033-00		220 5% 39K 1%	1/10W 1/10W
R204 R205		METAL GLAZE	1K 5%	1/10W	R603	1-216-339-11	METAL GLAZE	18K 1%	1/10W
R206	1_216_063_00	METAL GLAZE	3.9K 5%	1/10W	R604 R605		METAL GLAZE METAL GLAZE	560K 1% 240K 1%	1/10W 1/10W
R207	1-216-150-00	METAL GLAZE	10 5%	1/8W	11003	// 11		= 1.211	
R208 R209		METAL GLAZE METAL GLAZE	1K 5% 6.8 5%	1/10W 1/10W				omponents ide	
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mark or dotted line with mark are critical for safety.

Replace only with part number specified.

mailtenages Committee

Ref.No	Part No.	Description Description	Rema	<u>rk</u>	Ref.No	Part No.	<u></u>	escript	ion	2501.		emark	4
R606	1-216-077-00	METAL GLAZE 15K 5%	-1/10W	3137	[ACCE	SSORIES	AND P	ACKING N	JATERI	ALS	1.7	
R607	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W	1.00.		W. C.	6768				The first of a		
R608		METAL GLAZE 100K 5%		11.5			884				05 dit - 10		
R802		METAL GLAZE 10K 5%		1.148		18 i V.		· .	450.10	. J. 3 Sala	St. 845-61	10	
R803		METAL GLAZE 220 5%		B11 (1)	t						Section.		
1003	1-210-033-00	INC THE GOTTE STATE TO THE STATE OF THE STAT	27.2011		l . ,	* 3-349-349			NOINUC	IOIA	All Street of a	1311	
R804	1-216-121-00	METAL GLAZE IM 5%	1/10W	6459					CARTON	do A Secret	1. 1827 mg 1		
R805		METAL GLAZE 3.9M 5%		8458		* 4-920-407							
R806		METAL GLAZE 2.2M 5%		1135.		14-320 407	OT DV	a, ritoi	LOTION	297 384	Re 135 m		
R807		METAL GLAZE 4.7M 5%		8384	1	V(6.1.	507		2772 12	139 347	District Single	. 11	44
R808		METAL GLAZE 5.6M 5%		6183		WELL					gh and his		
KOOO	1-210-200 11	[HIL 1716 GD ILE 112,5111 12,500	27011		1	132-1	ger o		** 1/2 m 2 1/2/2	299 3511	Dr s - 4.		
R809	1-216-097-00	METAL GLAZE 100K 5%	1/10W	MARK	1	895	3-1	4	disa.si.	and how	5. 385.393.		į,
R810	1-216-073-00	METAL GLAZE 10K 5%	1/10W	573		4866	30.		35 m. 1				
R901		METAL GLAZE 68 5%		Cherry		9/94		7			Descriptions.		
11301		T WAY 34 10 10 1800 ES		ASTE	1	W/2.	36.5				381 F.M. 471		
R902	1-216-311-00	METAL GLAZE 6.8 5%	1/10W	100	1	新 表。"					and the second		
R903		METAL GLAZE 27K 5%										4 15	
R904		METAL GLAZE 330K 5%		1.72.1	i	W81.					grander all	1	
R905		METAL GLAZE 12K 5%		33.2		Sept.	61	į.			No Belley		
R906		METAL GLAZE 2.2K 5%			1	Vaste	2				1.6 (95 - 64		
0067		The state of the s		14.7	1	9.50							
RV201		RES, ADJ, CARBON 5K				And the					tion on the		
RV401		RES, VAR, CARBON (VOL)	1228 42., 1		1	100				6.7			
RV501		RES, ADJ, CARBON 200K		335 h		-7%							
RV502		RES, ADJ, CARBON 5K		130	j	建新					Market and		
RV502	1-220-333-00	RES, ADJ, CARBON 5K		191	1 .	100							
K V 203	1-220-993-00	WES, ADJ, CARDON SK 44 45	The first of a grade		1	46.53	6						
RV504		RES, ADJ, CARBON 5K		111	į.	N/C	£ .						
		RES, ADJ, CARBON 20K	31. 30		1				2.77	10 1 2111			
RV601		RES, ADJ, CARBON 200	M		1	Most,					1. A		
RV801		THES, ADJ (HIGH WOLLINGE) 4.71		3724		10177					and the second		
0601	4 571: 470 11	SWITCH, SLIDE (POWER)		200						313	14.		
S601					1	TEN .							
	3 1/4	er da i kanal debah bi	0.00 0.10	Plan.	1	8/6"							
SP401	1-503-540-11	SPEAKER NAME AND A	71.		İ						and the land	1 57	
SW F21	01 1-577-558-11	FILTER, CERAMIC		v - 13		4. C. C.	150				48 W/ W 3		
01112	Na et i a	of the Banda a tole (4)	JAN DE LE		1						4A 187 G		
T201		TRANSFORMER ASSY, FLYBACK		25 / 37		S43,					30 - 24-1		
1001	W. 1 -103 -100 11	9 1977 INC. 1 1945 Aug.		dillo-									
TEPZ2		TUNER UNIT							1,1				
151 42	1-400-010-21	The state of the s	-,, -, -,		1	731			1 July 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and the second		
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The components identified by mark or dotted line with mark are critical for safety.
Replace only with part number

Sony Corporation

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